

LISTING OF CLAIMS:

1 – 3 (Canceled)

4. (Currently amended) ~~The solid fuel of claim 3~~ A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

gelled oxygenates, wherein the gelled oxygenate comprises methanol in an amount of at least 30 weight percent and an acrylic polymer in an amount of at least 3 weight percent; and

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof.

5. (Canceled)

6. (Canceled)

7. (Currently amended) A solid fuel for generating a gaseous fuel for use in a fuel cell comprising:

an oxygenate, the oxygenate comprises an acetaldehyde in an amount of at least 30 weight percent;

a polymer, wherein the polymer is an acrylic polymer in an amount of at least 3 weight percent; and

a metal or metal compound, wherein the metal or metal compound is selected from the group consisting of magnesium hydroxide (Mg(OH)₂), magnesium oxide (MgO), magnesium methoxide (Mg(OCH₃)₂), magnesium (Mg), magnesium hydride (MgH₂), and mixtures thereof.

8. (Currently amended) ~~The solid fuel of claim 1~~ A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

frozen oxygenates, wherein the frozen oxygenate comprises a mixture of an oxygenate and a material selected from the group consisting of alcohols, glycols, hydrocarbons, sugar esters, metal alkoxides, and mixtures thereof, having melting points at temperatures greater than 26°C; and

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof.

9. (Currently amended) ~~The solid fuel of claim 1~~ A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

metal oxygenates, wherein the metal oxygenate comprises a metal selected from the group consisting of lithium (Li), sodium (Na), potassium (K), beryllium (Be), magnesium (Mg), calcium (Ca), rubidium (Rb), cesium (Cs), strontium (Sr), barium (Ba), aluminum (Al), and mixtures thereof; and

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof.

10. (Original) The solid fuel of claim 9 wherein the metal is selected from the group consisting of lithium, sodium, potassium, magnesium, and mixtures thereof.

11 – 14 (Canceled)

15. (Currently Amended) ~~The solid fuel of claim 1 further comprising~~ A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

an oxygenate compound selected from the group consisting of metal oxygenates, gelled oxygenates, frozen oxygenates, and mixtures thereof;

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof; and

a solid catalyst selected from the group consisting of transition metals, oxides of transition metals, and mixtures thereof.

16. (Original) The solid fuel of claim 15 wherein the catalyst is selected from the group consisting of oxides of Mn, oxides of Fe, and mixtures thereof.

17 - 18 (Canceled)

19. (Currently amended) ~~The solid fuel of claim 1 further comprising~~ A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

an oxygenate compound selected from the group consisting of metal oxygenates, gelled oxygenates, frozen oxygenates, and mixtures thereof;

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof; and

a metal hydride selected from the group consisting of lithium hydride, magnesium hydride, sodium hydride, potassium hydride, aluminum hydride, and mixtures thereof.